

## EAST Search History

| Ref # | Hits   | Search Query                                | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| S18   | 158038 | "219"/\$.ccls.                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/17 15:38 |
| S19   | 2600   | S18 and electrode and (cooling near5 water) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/17 15:39 |
| S20   | 317    | S19 and (sleeve with insulat\$3)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/17 15:39 |
| S21   | 139    | S20 and (spring)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/17 15:41 |
| S22   | 23     | S21 and resistance adj welding              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/17 15:41 |
| S23   | 3      | S20 and (spring) and projection adj welding | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/17 15:41 |
| S24   | 25     | S22 or S23                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/17 15:41 |
| S25   | 1      | ("5705784").PN.                             | USPAT   | OR               | OFF     | 2007/03/24 17:07 |

## EAST Search History

|     |       |  |  |    |     |                  |
|-----|-------|--|--|----|-----|------------------|
| S26 | 1067  | (projection adj welding) and (electrode)           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2007/03/24 17:11 |
| S27 | 95    | S26 and (sleeve)                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2007/03/24 17:08 |
| S28 | 3     | S26 and (sleeve same water)                        | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2007/03/24 17:08 |
| S29 | 150   | (projection adj welding) and (electrode) and water | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2007/03/24 17:33 |
| S30 | 332   | (219/93).CCLS.                                     | USPAT  | OR | OFF | 2007/03/24 17:33 |
| S31 | 65    | (219/86.31).CCLS.                                  | USPAT  | OR | OFF | 2007/03/24 17:34 |
| S32 | 284   | (219/89).CCLS.                                     | USPAT  | OR | OFF | 2007/07/31 14:54 |
| S33 | 670   | S30 or S31 or S32                                  | USPAT  | OR | ON  | 2007/03/24 17:34 |
| S34 | 66    | S33 and water                                      | USPAT  | OR | ON  | 2007/03/24 17:34 |
| S35 | 22176 | aoyama.in.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2007/07/31 14:54 |
| S36 | 244   | S35 and electrode and welding                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2007/07/31 14:55 |
| S37 | 32    | S36 and groove                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2007/07/31 14:59 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S38 | 2652 | (electrode) and (projection near10 welding)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/31 15:01 |
| S39 | 46   | S38 and (sleeve same cool\$3)                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/31 15:03 |
| S40 | 17   | (electrode and projection and welding and sleeve).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/31 15:03 |